## **Appendix B-List of Potential Indicators**

Indicator Name/Type	Data Source
Biological Indicators (defined	as population abundance)
Aquatic species	
Chinook salmon	Washington Department of Fish and Wildlife (WDFW) <a href="http://wdfw.wa.gov/mapping/salmonscape/">http://wdfw.wa.gov/mapping/salmonscape/</a>
	Governor's Salmon Recovery Office (GSRO)-Recreation and Conservation Office (RCO)
	http://www.governor.wa.gov/gsro/publications/sosreport/default.asp
Summer chum salmon	WDFW <a href="http://wdfw.wa.gov/mapping/salmonscape/">http://wdfw.wa.gov/mapping/salmonscape/</a>
	GSRO-RCO <a href="http://www.governor.wa.gov/gsro/publications/sosreport/default.asp">http://www.governor.wa.gov/gsro/publications/sosreport/default.asp</a>
Coho salmon	WDFW http://wdfw.wa.gov/mapping/salmonscape/
Pacific herring	WDFW-annual stock status report <a href="http://wdfw.wa.gov/fish/forage/herring.htm">http://wdfw.wa.gov/fish/forage/herring.htm</a>
	WDFW-PSNERP <a href="http://www.pugetsoundnearshore.org/technical_papers/marine_fish.pdf">http://www.pugetsoundnearshore.org/technical_papers/marine_fish.pdf</a>
Rock fish	WDFW
	NOAA Fisheries
Dungeness crab	WDFW-priority habitat and species http://wdfw.wa.gov/hab/phs/dungeness crab/2008 dungeness crab phs recs.pdf

	WDFW-Puget Sound Nearshore Ecosystem Restoration Project (PSNERP)
	http://www.pugetsoundnearshore.org/technical_papers/shellfish.pdf
Geoduck	Washington Department of Natural Resources (WDNR)
	WDFW-annual stock assessment
	http://www.wdfw.wa.gov/fish/shelfish/geoduck/geoduck_stock_assessment.htm
Spot prawns	WDFW
Terrestrial/Upland Species	
elk	WDFW
Western grebe	WDFW
Pileated woodpecker	WDFW-Christmas bird counts
Great blue heron	WDFW-PSNERP
	http://www.pugetsoundnearshore.org/technical_papers/herons.pdf
Aquatic Vegetation	
eelgrass	Washington Department of Natural Resources (DNR)-submerged vegetation monitoring project
	http://www.dnr.wa.gov/ResearchScience/Topics/AquaticHabitats/Pages/aqr_nrsh_eelg
	rass monitoring.aspx
	WDFW-PSNERP
	http://www.pugetsoundnearshore.org/technical_papers/kelp.pdf
Biological Diversity	
	WDFW-priority species and habitat program
	http://wdfw.wa.gov/hab/phslist.htm

	http://wdfw.wa.gov/hab/phs/phs_list_2008.pdf
ESA Listed salmon species	
Physical Indicators	
Land cover/land use	
Agricultural land acreage	Hood Canal Dissolved Oxygen Program (HCDOP)-land use/land cover analysis
	Farm Service Agrency (US Department of Agriculture)-National Agriculture Imagery Program (NAIP)
	http://www.fsa.usda.gov/FSA/apfoapp?area=home&subject=prog&topic=nai
Land cover trends	US Geological Survey (USGS)-summary of land cover trends-Puget Sound Lowland Ecoregion
	http://landcovertrends.usgs.gov/west/eco2Report.html WDFW
Forest cover/type	HCDOP-land use/land cover analysis
Forest land conversion	University of Washington-2006 Western Washington Land Use Change Data Set
	US Forest Service (USFS)-Forest Inventory Analysis
Impervious area	Hood Canal Coordinating Council (HCCC)-HCCC Buildout analysis
Urban development	HCDOP-land use/land cover analysis
Freshwater wetlands	HCDOP-land use/land cover analysis
Intertidal wetlands	WDFW-PSNERP
	http://www.pugetsoundnearshore.org/ US Army Corps of Engineers (USACOE)-Puget Sound General Investigation (GI)

	http://www.nws.usace.army.mil/PublicMenu/Menu.cfm?sitename=PSNERP&pagename=Change Analysis
Riparian condition	WRIAs 15, 16, and 17 Watershed Plans
	Washington Conservation Commission (WCC) Limiting Factors Reports for WRIAs 15, 16, and 17
	Point No Point Treaty Tribes and WDFW-summer chum salmon conservation initiative
	HCCC-Riparian Assessment
Stream channel condition	WRIAs 15, 16, and 17 Watershed Plans
	Washington Conservation Commission (WCC) Limiting Factors Reports for WRIAs 15, 16, and 17
	Point No Point Treaty Tribes and WDFW-summer chum salmon conservation initiative
	HCCC-Riparian Assessment
Stream flow	USGS
	Washington Department of Ecology (DOE)
Hydrologic alteration	WRIAs 15, 16, and 17 Watershed Plans
	Washington Conservation Commission (WCC) Limiting Factors Reports for WRIAs 15, 16, and 17
	Point No Point Treaty Tribes and WDFW-summer chum salmon conservation initiative

	HCCC-Riparian Assessment
Stream temperature	DOE
	USGS WRIAs 15, 16, and 17 Watershed Plans
	Washington Conservation Commission (WCC) Limiting Factors Reports for WRIAs 15, 16, and 17
	Point No Point Treaty Tribes and WDFW-summer chum salmon conservation initiative
	HCCC-Riparian Assessment
Dissolved carbon	HCDOP-freshwater sampling program
Dissolved nitrogen	HCDOP-freshwater sampling program
Dissolved nutrients	HCDOP-freshwater sampling program
Phosphorous	HCDOP-freshwater sampling program
Suspended sediment	HCDOP-freshwater sampling program
Fecal coliforms	DOE-environmental assessment program
	Washington Department of Health (DOH)
Chlorophyll	HCDOP-ORCA buoys monitoring

	HCDOP-citizens monitoring program
Dissolved oxygen	HCDOP-ORCA buoys monitoring
	HCDOP-citizens monitoring program
Nutrient concentrations	HCDOP-ORCA buoys monitoring
	HCDOP-citizens monitoring program
Salinity	HCDOP-ORCA buoys monitoring
Temperature	HCDOP-ORCA buoys monitoring
Contaminants in fish species	
Socioeconomic Indicators	
Economic indicators	
Commercial shellfish closures	DOH-Shellfish growing area annual reports and early warning system
	http://www.doh.wa.gov/ehp/sf/growreports.htm
	DOH-atlas of fecal coliform pollution in commercial shellfish areas (annual)
	http://www.doh.wa.gov/ehp/sf/growreports.htm
Federal timber harvest volume	USFS
Foresr practice	WDNR
applications/permits	
Hydraulic permits	WDFW
Hotel/motel occupancy rates	
State sales/gas tax revenues	Washington Department of Revenue

Building permits	Jefferson/Mason/Kitsap Counties
Population-resident	US Census Bureau
Population-transient	
Unemployment claims	Washington Department of Labor and Industries
Public land acquisition	RCO-Washington Wildlife and Recreation Program
	USFS
zoning	Jefferson/Mason/Kitsap Counties
Recreation indicators	
Dungeness crab harvest	WDFW
	Hood Canal Tribes
Salmon harvest	WDFW
	Hood Canal Tribes
Spot prawn harvest	WDFW
	Hood Canal Tribes
Recreation shellfish closures	DOH

State park visitor use	Washington State Parks and Recreation Commission
	Trust for Public Land/WWRC-distribution map (see Peter Dykstra, TPL)